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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

03/16/2010

CROMPTON, SEAGER & TUFTE, LLC 1221 NICOLLET AVENUE SUITE 800 MINNEAPOLIS, MN 55403-2420 EXAMINER

KOHARSKI, CHRISTOPHER

ART UNIT PAPER NUMBER

3763 DATE MAILED: 03/16/2010

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645.764	08/20/2003	Pu Zhou	1001.1688101	8049

TITLE OF INVENTION: CATHETER WITH THIN-WALLED BRAID

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

#### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

maintenance fee notifica	ntions.		rders and notification of r a) specifying a new corres				rate "FEE ADDRESS" for domestic mailings of the
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)  28075 7590 03/16/2010			Fee pap	s) Transmittal, Thi	s certificat I paper, su	te cannot be used fo ich as an assignmen	or any other accompanying t or formal drawing, must
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MINNEAPOLI	S, MN 55403-2420						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORN	EY DOCKET NO.	CONFIRMATION NO.
10/645,764	08/20/2003		Pu Zhou		100	01.1688101	8049
TITLE OF INVENTION	N: CATHETER WITH T	HIN-WALLED BRAID					
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	E FEE 1	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	06/16/2010
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	]			
KOHARSKI, C	CHRISTOPHER	3763	604-523000				
1. Change of correspond CFR 1.363).	ence address or indicatio	n of "Fee Address" (37		2. For printing on the patent front page, list			
_ ′	oondence address (or Cha B/122) attached.	nge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
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☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME A	AND RESIDENCE DATA	A TO BE PRINTED ON	I THE PATENT (print or typ	pe)			
PLEASE NOTE: Un	less an assignee is ident	ified below, no assignee	data will appear on the p T a substitute for filing an	atent. If an assigne	ee is ident	tified below, the do	cument has been filed for
(A) NAME OF ASSI	•	piedoli of this form is NO	(B) RESIDENCE: (CITY	· ·	OUNTRY	n O	
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Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent): $\Box$	Individual 🖵 Co	orporation	or other private gro	up entity 🚨 Government
4a. The following fee(s)	are submitted:	41	b. Payment of Fee(s): (Plea	se first reapply an	ıy previou	ısly paid issue fee s	hown above)
☐ Issue Fee			A check is enclosed.				
Publication Fee (No small entity discount permitted)  Advance Order - # of Copies			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				
			overpayment, to Depo	sit Account Number	er	(enclose an	extra copy of this form).
	<b>itus</b> (from status indicate ns SMALL ENTITY stati	,	☐ b. Applicant is no lon	ger claiming SMAI	L ENTIT	'Y status. See 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee an	nd Publication Fee (if req		d from anyone other than t	-			
Authorized Signature	:			Date			
Typed or printed name							
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an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V. Alexandria, V. Virginia 22:	ntiality is governed by 35 application form to the ions for reducing this bu Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR U.S.C. 122 and 37 CFR U.S.C. 129 Time will vary rden, should be sent to the DONT SEND FEES OR	on is required to obtain or in 1.14. This collection is est of depending upon the individual collection. Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 r ridual case. Any coer, U.S. Patent and 'D THIS ADDRESS	minutes to minutes to mments of Trademark S. SEND T	complete, including the amount of tim k Office, U.S. Depa O: Commissioner for the commissione	g gathering, preparing, and the you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450.

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10/645,764 08/20/2003		Pu Zhou	1001.1688101	8049
28075 75	590 03/16/2010		EXAM	INER
CROMPTON, SI	EAGER & TUFTE, I	KOHARSKI, C	HRISTOPHER	
1221 NICOLLET	AVENUE	ART UNIT	PAPER NUMBER	
SUITE 800 MINNEAPOLIS. 1	MN 55403-2420		3763	

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)					
Notice of Allowability	10/645,764 <b>Examiner</b>	ZHOU, PU Art Unit					
nonce of rmenaemy	Examine	Ait oilit					
	CHRISTOPHER D. KOHARSKI	3763					
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included n will be mailed in due course. <b>THIS</b>					
1. This communication is responsive to <u>02/23/2010</u> .							
2. The allowed claim(s) is/are <u>10,12,27-30,32 and 33</u> .							
3. $\square$ Acknowledgment is made of a claim for foreign priority ur	nder 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some* c) ☐ None of the:							
<ol> <li>Certified copies of the priority documents have</li> </ol>	been received.						
<ol><li>Certified copies of the priority documents have</li></ol>	been received in Application No	·					
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received in this	national stage application from the					
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements					
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give							
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.						
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached							
1) ☐ hereto or 2) ☐ to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of						
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).							
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Patent Application					
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	(PTO-413),					
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7.	te ment/Comment					
Paper No./Mail Date4.	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance					
of Biological Material	9.						
/Christopher D Koharski/							
Examiner, Art Unit 3763							

### **DETAILED ACTION**

# Allowable Subject Matter

Claims 10, 12, 27-30 and 32-33 are allowed over the prior art of record as amended in the 02/23/2010 reply.

The following is an examiner's statement of reasons for allowance: The claims in this application have been allowed because the prior art of record fails to disclose either singly or in combination the claimed device of a catheter braid that is formed from at least two continuous wires that are woven together. The catheter braid includes a proximal braid section and a distal braid section, with each of the continuous wires having a proximal diameter corresponding to the proximal braid section and a distal diameter corresponding to the distal braid section. With the distal diameter of each wire can be less than the proximal diameter of that wire.

The closest prior art of record is Klint (US2002/0074051) and Cohen (USPN5,330,521), however these references do not disclose the device as claimed or described above.

Regarding claims 10, 27 and 29, the closest prior art of record fails to teach among all the limitations or render obvious the specifics of the catheter reinforcing braid layer extending from a proximal to distal end with the transition as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/645,764 Page 3

Art Unit: 3763

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher D. Koharski whose telephone number is 571-272-7230. The examiner can normally be reached on 7:30am to 4:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick Lucchesi can be reached on 571-272-4977. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Date: 03/02/2010

/Christopher D Koharski/ Examiner, Art Unit 3763

/Nicholas D Lucchesi/ Supervisory Patent Examiner, Art Unit 3763